Bruhath Bangalore Mahanagara Palike Dasarahalli Zone
Excecutive Engineer, Project division

Name of Work: **Providing Fencing to Balance Porction of Mallasandra Quarry Sy No.33, in**

Est .Cost Rs.200.00 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Page No.141/ Item No.219.2/ PWD SR 2015-16								
	For Grill Foundation	cum	1	32.50	1.00	1.00	32.50		
			1	32.50	1.00	1.00	32.50		
			1	32.50	1.00	1.00	32.50		
			1	32.50	1.00	1.00	32.50		
			1	55.00	1.00	1.00	55.00		
			1	275.00	1.00	1.00	275.00		
	For Fencing Foundation		1	200.00	1.00	1.00	200.00		
	For Compound wall		1	172.00	0.80	0.80	110.08		
	For Compound wall Column		58	1.00	1.00	1.40	81.20		
	For Grill Foundation Column		78	1.00	1.00	1.00	78.00		
	Deduct for Compound wall Column		58	1.00	0.85	0.80	39.44		
	Deduct for Grils foundation Column		78	1.00	1.00	1.00	78.00		
							811.00		
							811.00	204.16	**165573.76**
2	KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No. KBS 4.1,4.2, Page No.12/ Item No.4.2 PWD SR 2015-16								
	For Grill Foundation	cum	1	32.50	0.90	0.20	5.85		
			1	32.50	0.90	0.20	5.85		
			1	32.50	0.90	0.20	5.85		
			1	32.50	0.90	0.20	5.85		
			1	55.00	0.90	0.20	9.90		
			1	275.00	0.90	0.15	37.13		
	For Fencing Foundation		1	200.00	0.90	0.20	36.00		
	For Compound wall		1	172.00	0.85	0.20	29.24		
	For Compound wall Column		58	1.00	1.00	0.15	8.70		
	For Grill Foundation Column		78	1.00	1.00	0.20	15.60		
	Deduct for Compound wall Column		58	0.23	0.23	0.20	0.61		
	Deduct for Grils foundation Column		78	1.00	1.00	0.20	15.60		
							143.75		
							143.75	5236.92	**752807.25**

3	KSRB 5.4-3: Providing and constructing granite I trap I basalt size stone masonry in superstructure with cement mortar 1:6 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, uring complete as per specifications. KBS 5.1.13, Page No.23/ Item No.5.12/ PWD SR 2015-16								
	For Grill Foundation	cum	1	32.50	0.75	0.65	15.84		
			1	32.50	0.60	0.65	12.68		
			1	32.50	0.75	0.65	15.84		
			1	32.50	0.60	0.65	12.68		
			1	32.50	0.75	0.65	15.84		
			1	32.50	0.60	0.65	12.68		
			1	32.50	0.75	0.65	15.84		
			1	32.50	0.60	0.65	12.68		
			1	55.00	0.75	0.65	26.81		
			1	55.00	0.60	0.65	21.45		
			1	275.00	0.75	0.65	134.06		
			1	275.00	0.60	0.65	107.25		
	For Fencing Foundation		1	200.00	0.75	0.65	97.50		
			1	200.00	0.60	0.65	78.00		
	For Compound wall		1	172.00	0.75	0.60	77.40		
			1	172.00	0.60	0.60	61.92		
	Deduct for Compound wall Column		58	0.23	0.23	0.60	1.84		
			58	0.23	0.23	0.60	1.84		
	Deduct for Grils foundation Column		78	0.45	0.23	0.65	5.25		
			78	0.45	0.23	0.65	5.25		
							704.29		
							704.29	5159.16	**3633544.80**
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1..13 Page No.23/ Item No.5.9/ PWD SR 2015-16								
	For Grill Foundation	cum	1	32.50	0.45	1.00	14.63		
			1	32.50	0.45	1.65	24.13		
			1	32.50	0.45	1.20	17.55		
			1	32.50	0.45	1.05	15.36		
			1	55.00	0.45	1.00	24.75		
			1	275.00	0.45	0.60	74.25		
	For Fencing Foundation		1	200.00	0.45	0.45	40.50		
	For Compound wall		1	172.00	0.45	0.40	30.96		
	Deduct for pole Fencing		85	0.45	0.45	0.45	7.75		
	Deduct for Compound wall Column		58	0.23	0.23	0.40	1.23		
	Deduct for Grils foundation Column		78	0.45	0.23	1.20	9.69		
							223.46		
							223.46	4905.36	**1096151.75**

5	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 eaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, Page No.12/ Item No.4.5/ PWD SR 2015-16								
	Fencing poles bottom	cum	85	0.45	0.45	0.45	7.75		
	Coping For Grill Foundation		1	32.50	0.45	0.10	1.46		
			1	32.50	0.45	0.10	1.46		
			1	32.50	0.45	0.10	1.46		
			1	32.00	0.45	0.10	1.44		
			1	55.00	0.45	0.10	2.48		
			1	275.00	0.45	0.10	12.38		
	Coping For Fencing Foundation		1	200.00	0.45	0.10	9.00		
	Coping For Compound wall		1	172.00	0.15	0.10	2.58		
							40.00		
							40.00	5991.84	**239692.32**
6	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications Specification No. KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2015-16								
	Plinth beam for Grill Foundation	Sqm	4	32.50		0.30	39.00		
			4	32.50		0.30	39.00		
			4	32.50		0.30	39.00		
			4	32.50		0.30	39.00		
			4	55.00		0.30	66.00		
			2	275.00		0.30	165.00		
	plinth for compound wall		2	172.00		0.30	103.20		
	plinth for compound wall Top		2	172.00		0.20	68.80		
	Footing for Grils Foundation		78*4	0.90		0.40	112.32		
	Column for Grils Foundation		10*2	0.45		1.55	13.95		
			10*2	0.23		1.55	7.13		
			10*2	0.45		2.15	19.38		
			10*2	0.23		2.15	9.89		
			10*2	0.45		1.75	15.75		
			10*2	0.23		1.75	8.05		
			10*2	0.45		1.60	14.40		
			10*2	0.23		1.60	7.36		
			17*2	0.45		1.65	25.25		
			17*2	0.23		1.65	12.90		
	Footing for Compound wall		58*4	0.90		0.50	104.40		
	column for Compound wall		58*4	0.23		2.90	154.74		
							1064.52		
							1064.52	306.72	**326509.27**

7	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification do - TMT bars Fe 500No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2015-16.								
	For drain								
	One cubic mt 80 kg for pinth beam	Tonne	1	9.13			**9.13**		
	one cubic mt 80 kg column		1	5.15			5.15		
							14.28	60021.00	857314.56
8	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)Page No. 18/ Item No. 4.48/ PWD SR 2015-16								
	Plinth beam for Grill Foundation		2	32.50	0.45	0.30	8.78		
			2	32.50	0.45	0.30	8.78		
			2	32.50	0.45	0.30	8.78		
			2	32.50	0.45	0.30	8.78		
			2	55.00	0.45	0.30	14.85		
			1	275.00	0.45	0.30	37.13		
	plinth for compound wall		1	172.00	0.45	0.30	23.22		
	plinth for compound wall Top	cum	1	172.00	0.15	0.15	3.87		
	Footing for Grils Foundation		78	0.90	0.90	0.40	25.27		
	Column for Grils Foundation		10	0.45	0.23	1.55	1.60		
			10	0.45	0.23	2.15	2.23		
			10	0.45	0.23	1.75	1.81		
			10	0.45	0.23	1.60	1.66		
			17	0.45	0.23	1.60	2.82		
	Footing for Compound wall		58	0.90	0.90	0.40	18.79		
	column for Compound wall		58	0.23	0.23	2.80	8.59		
							176.93		
							176.93	6332.04	1120339.931
9	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications, specification. No. KBS 2.9 Page No. 06/ Item No. 2.10/ PWD SR 2015-16								
	Up to 30% Excavation Qty Item No.2	Cum					246.62		
							246.62	129.60	**31962.00**

10	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the engineer-in - charge of the work and including providing 2 coats of pproved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) Page No.255/ Item No.37.2/ PWD SR 2015-16.								
	For Fencing Foundation	Rmt	200	2.95			590.00		
							590.00	991.44	**584949.60**
11	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between / the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as irected by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. Page No. 255/ Item No. 37.4/ PWD SR 2015-16								
	For Fencing Foundation	Rmt	3	200.00			600.00		
							600.00	338.04	**202824.00**
12	Providing chain link fencing 50mm size of 8 guage properly stretched etween existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint Page No. 255/ Item No. 37.3/ PWD SR 2015-16								
	For Fencing Foundation	Sqm	1	200.00		1.90	380.00		
							380.00	697.68	**265118.00**
13	KSRB 15.1.5 Providing raised and cut pointing to coursed stone masonry with cement mortar 1:3,20mm, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per pecifications.Page No. 112/ Item No. 15.5/ PWD SR 2015-16								
	For Fencing Foundation	Sqm	1	200.00		0.45	90.00		
							90.00	145.80	**13122.00**
14	Providing and fixing RCC name board of size 1.35xk0.60x0.04 mtrs fixed in reinforced cement concrete poles of size 0.10x0.10x2.60mtrs in cement concrete M 20 proportion using 20mm and down size graded metal machine mixed with 10mm dia main steel bars and 8mm dia stirpes as shown in drawing. The board shall be provided with 12mm thick cement plaster in cement mortar 1:3 on both the sides. The poles shall be embedded in the ground for a depth of 0.5 mtrs with cement concrete M 10 proportion. The board shall be fixed as per the drawing and at the place indicated -by the Engineering charge of the work. The cost includes excavation, cost of all materials, cost of steel, centering, transportation charges, fixing charges etc., The work shall be carried out as per the detailed specifications, drawings and directions of the Engineer in charge of the work..Page No. 159/ Item No. 37.60/ PWD SR 2015-16								
	For Fencing Foundation	Each	1				1.00		
							1.00	5184.00	**5184.00**

15	KSRB 5-15 : Providing and constructing non-load bearing wall with cement concrete solid blocks with compressive strength not less than 3.5 Newton per sqmm with cement mortar 1:4 (Jamb, closer blocks) with blocks of size 40x10x20cms. (lxbxh) conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No.25/ Item No.5.28/ PWD SR 2015-16								
	For compound wall	Sqm	1	172.00		1.50	258.00		
	Deduct for column		58	0.23		0.15	2.00		
							256.00	743.04	190217.50
16	KSRB 15.3.1 Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.Page No.112/ Item No.15.9/ PWD SR 2015-16								
	For compound wall	Sqm	2	172.00	2.00		688.00		
	For compound wall Top		1	172.00	0.15		25.80		
							737.02	184.68	136112.85
17	KSRB 15.10.1 Providing white washing to new wall surface in two coats with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications. Page No.114/ Item o.15.38/ PWD SR 2015-16								
	same Qty as plastering	Sqm					737.02		
							737.02	8.64	6367.85
18	Providing and Fabricating erecting in position 16mmX16mm Sq rod grill work as per drawing using 50mmX6mm flat & 50mmX10mm flat 35mmX35mmX5mm 1 angle 100mmX100mmX10mm Square pipe 100mm X10mm flat for design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrow head at top. The work in inclusive of Straitening flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrsive paint over one coat of metal primer. The rate is inclusive of all materials like MS hollow pipe, flats, forged square rods, cost of labour for all items of work cost of painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials labour, achinery and incidental charges for the successful completion of the work as per the direction Engineer in charge of the work.								
	Grils for Gril Foundation	Sqm	1	50.00		1.75	87.50		
			1	50.00		1.75	87.50		
			1	50.00		1.75	87.50		
			1	50.00		1.75	87.50		
			1	55.00		1.75	96.25		
			1	275.00		1.75	481.25		
							927.50	9062.00	8405005.00

Sl. No	Description of Work	Unit	No	Dimension			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
19	KSRRB M800-18, G.L Barbed Wire Fencing 1.8 Metre High:- Providing m and fixing 1.8 metres high GI barbed wire fencing with 2.4 m angle iron posts 50 mm x 50 mm x 6 mm placed every 3 metres center to center founded in M-15 grade cement concrete, 0.6 metre below ground level, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with 12 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc complete as per clause 800.7 as per specifications. MORTH Specification No. 807(P.No-182 ,I No-24.22)								
	Wire Fencing	M	1	~~700.00~~ 555.00			~~700.00~~ 555.00		223576.00
						Total Qty	~~700.00~~	402.84	
20								Total Constrution cost	~~281000.00~~
21								KRIDL Charges ~~8.00~~%	~~16,64,829.46~~
22								Sub Total	~~196,00,955.67~~
23								Miscellaneous & Rounding Off	44.33
24								Grand Total Rs	200,00,000.00

D.P.R charges,

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2015-16
4. The provisions made in the estimate are necessary and essential.

Ravi. N.K.
Assistant Engineer
Project Sub Division
BBMP - Bangalore

Assistant Executive Engineer
Project Sub Division
BBMP - Bangalore

Executive Engineer
Dasrahalli Project Division
BBMP - Bangalore

ನಂ.BBMP/DZ/CE/57/2016-17 ದಿನಾಂಕ : 20/10/2016
ರೂ. 200/- lakhs [Two Hundred lakhs only]
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

ನಂ. BBMP/DZ/EE/AE/11/2016-17. ದಿನಾಂಕ : 20-10-2016
ರೂ. 200/- Lakhs [Rupees Two Hundred Lakhs only]
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ದಾಸರಹಳ್ಳಿ ವಲಯ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.